



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBW6205G15231-3G

Job Sheet 177005



Part No: RBW6205G15231-3G

Job Qty: 1 ea

Part Name: AW139 Swashplate Box 1



Part Weight: 0 lbs

Status: Scheduled

Priority: High

Job Created: 5/4/18

Job Tracking No:

Due Date: 7/6/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG RBW6205G15231-3G REV 1 IPP REV A 18.02.15 NEW ISSUE FK VERIFY DP

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		7/6/18	0.00	0.00	Start Up Small Fab-4		MCC
110	Small Fab	1 pcs		7/6/18	0.00	0.00	Small Fab-4		MCC DAS
120	QC	1 pcs		7/6/18	0.00	0.00	QC5		38
130	Packaging	1 pcs		7/6/18	0.00	0.00	Packaging3-1		MCC 9-89
140	QC21-FG	1 Ea		7/6/18	0.00	0.00	QC21		DAS JUL 10 2018

Part Op 110 - 1-Engrave placard RB41011 using marktronic engraver 2-Transfer drill Dart placard RB41011 into Pelican Strom
Descriptions: case IM-2875-E 3-Deburr holes and remove chips from case. 4-Rivet Dart placard to Pelican case 5-Glue placard
RBW6205G15231-3G-9 to RBW6205G15231-3G-7 foam as per DWG. 6-Glue foam to case and pack case as per DWG.

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
90183A213 GA	BLIND RIVET FLAT WASHER ALUMINUM, ROUND, FOR 1/8"	4 Ea (4 ea)	90-Start up Operation	5058255
4611T26 86	RIVET BODY DIA., 3/8" OD	2 Ea (2 ea)	110-Small Fab	5054270
97447A130 39	Aluminum Blind Rivet W/Aluminum Mandrel Domed, 1/8" Dia., 0.313"-0.375" Material Thickness	4 Ea (4 ea)	110-Small Fab	5054330
AN5-10A 5+337	Bolt	8 Ea (8 ea)	110-Small Fab	5017095
AN5-27A 5+337	Bolt 5/16 X 2 31/32 Steel	4 Ea (4 ea)	110-Small Fab	5048291
AN960-516 5+332	WASHER	8 pcs (8 ea)	110-Small Fab	5044158
IM2875-E	Pelican Case	1 Ea (1 ea)	110-Small Fab	5077835
RB41011	Dart Tooling Placard, Aluminum	1 Ea (1 ea)	110-Small Fab	5021040
99 RBW6205G11451-3G	Clamp	8 Ea (8 ea)	110-Small Fab	5078977
64 RBW6205G11651-3G	Guide	1 Ea (1 ea)	110-Small Fab	5063260
RBW6205G11751-3G	Guide	1 Ea (1 ea)	110-Small Fab	5063264
RBW6205G15231-3G-5	Bottom Foam use in case IM2875-E	1 Ea (1 ea)	110-Small Fab	5077820
RBW6205G15231-3G-7	Lid Foam use in case IM2875-E	1 Ea (1 ea)	110-Small Fab	5077823
97 RBW6205G15231-3G-9	Inside Placard	1 Ea (1 ea)	110-Small Fab	5070507
95 RBW6205G15551-3G	Pin	1 Ea (1 ea)	110-Small Fab	5062836

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	90183A213	4	496	0
110-Small Fab	4611T26	2	10	0
	97447A130	4	246	0

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____ Date : _____ _____ _____	DISPOSITION _____ _____ _____	 AGAINST DEPARTMENT/PROCESS Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐ MRB (QSI042) Approval _____ Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____ Container No: S089871 Part: FBW6205G15231 - 3G Job No: 177005 Serial No/Batch: S089871 Revision: 1 Inspector: _____ Exp Date: _____ Instructions: _____ Date: 07/09/18 DART AEROSPACE Uart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 813 832 - 5200 Email: sales@dartaero.com www.dartaerospace.com																																																																				
Root Cause <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">☐ Environment</td> <td style="width: 15%;">☐ No Re-verification</td> <td style="width: 15%;">☐ Pressure/Forced</td> <td style="width: 15%;">☐ Temperature/Cure</td> <td style="width: 15%;">☐ Power Loss/Surge</td> <td style="width: 15%;">☐ Positioned Wrong</td> </tr> <tr> <td>☐ Design</td> <td>☐ Operator</td> <td>☐ Bending</td> <td>☐ Set-up</td> <td>☐ Folio/Program</td> <td>☐ Outside Dimensions</td> </tr> <tr> <td>☐ Doc/Data</td> <td>☐ Offset/Setup</td> <td>☐ Centre Not Concentric</td> <td>☐ BOM/Route</td> <td>☐ Grain</td> <td>☐ Over/Under tolerance</td> </tr> <tr> <td>☐ Equip/Tooling</td> <td>☐ Supplier</td> <td>☐ Cracks</td> <td>☐ Broken/Damage/Defect</td> <td>☐ Weld</td> <td>☐ Part Incorrect</td> </tr> <tr> <td>☐ Handling/Pre</td> <td>☐ Training</td> <td>☐ Crimp/Kink/Ripple/Wave</td> <td>☐ Inspection Incomplete/Unqualified</td> <td>☐ Wrong Stock Pulled</td> <td>☐ Part Lost/Missing</td> </tr> <tr> <td>☐ Material</td> <td>☐ Use for Testing</td> <td>☐ Cuffs</td> <td>☐ Contamination</td> <td>☐ Out of Sequence</td> <td>☐ Part Moved</td> </tr> <tr> <td>☐ Internal Transport</td> <td>☐ Poor Information</td> <td>☐ Crushing</td> <td>☐ Countersink</td> <td>☐ Off-set</td> <td>☐ Drawing</td> </tr> <tr> <td>☐ Tribal Knowledge</td> <td>☐ Rushing</td> <td>☐ Heat Treat</td> <td>☐ Cut Too Short</td> <td>☐ Mislabeled</td> <td>☐ Finish</td> </tr> <tr> <td>☐ LOA</td> <td>☐ Product Improvement</td> <td>☐ Wave/Twist in Tube</td> <td>☐ Instructions Incomplete/Unclear</td> <td>☐ Fit/Function</td> <td>☐ Misread</td> </tr> <tr> <td>☐ Substation</td> <td>☐ Process Improvement</td> <td>☐ Marks/Chatter</td> <td>☐ Drill Holes</td> <td>☐ Misaligned/off center</td> <td>☐ Turning Sequence</td> </tr> <tr> <td>☐ Past Expiry Date</td> <td>☐ Manufacturing Process</td> <td colspan="4" rowspan="2" style="text-align: center; vertical-align: top;"> OTHER : _____ _____ </td> </tr> <tr> <td>☐ Misidentified</td> <td>☐ Past Due</td> </tr> </table>			☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions	☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance	☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect	☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved	☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing	☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish	☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread	☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence	☐ Past Expiry Date	☐ Manufacturing Process	OTHER : _____ _____				☐ Misidentified	☐ Past Due
☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong																																																																	
☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions																																																																	
☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance																																																																	
☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect																																																																	
☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing																																																																	
☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved																																																																	
☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing																																																																	
☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish																																																																	
☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread																																																																	
☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence																																																																	
☐ Past Expiry Date	☐ Manufacturing Process	OTHER : _____ _____																																																																				
☐ Misidentified	☐ Past Due																																																																					

AN5-10A	8	231	0
AN5-27A	4	26	0
AN960-516	8	292	0
IM2875-E	1	3	0
RB41011	1	841	0
RBW6205G11451-3G	8	16	0
RBW6205G11651-3G	1	7	0
RBW6205G11751-3G	1	7	0
RBW6205G15231-3G-5	1	3	0
RBW6205G15231-3G-7	1	3	0
RBW6205G15231-3G-9	1	3	0
RBW6205G15551-3G	1	4	0

Part Specifications

Specifications could not be found.

Plex 7/6/18 10:42 AM Dart.lajeunesse.marie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

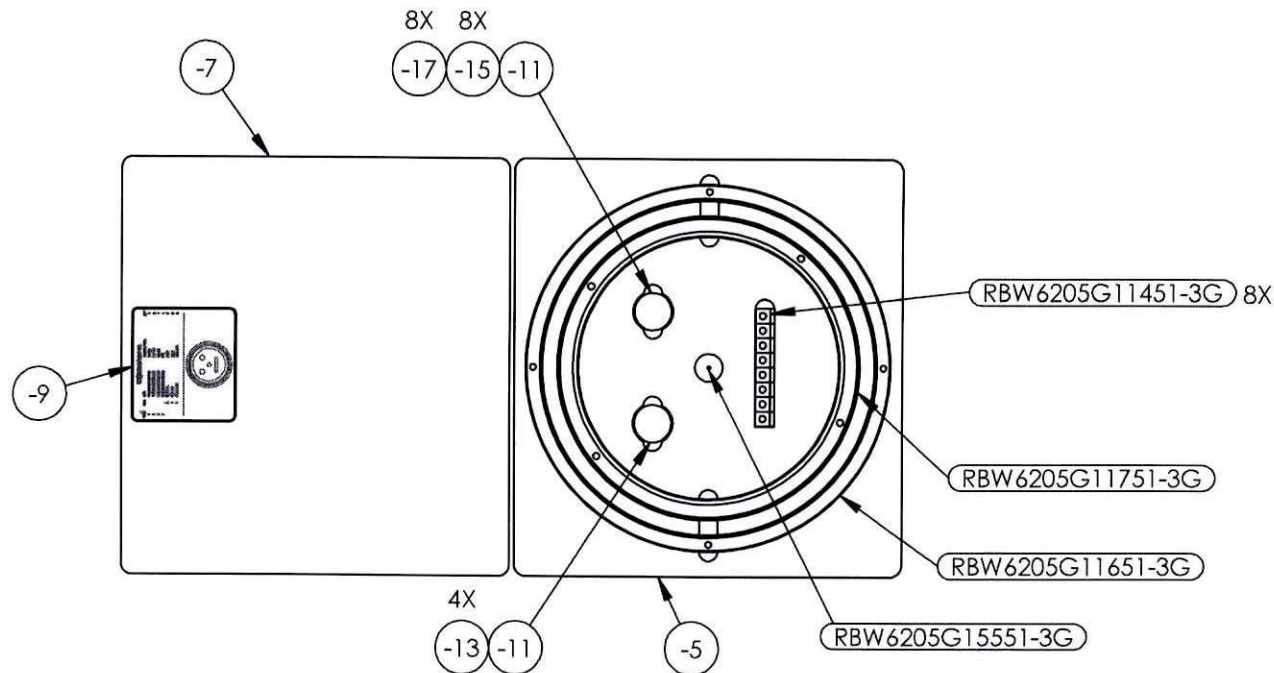
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-5 ADDED FINGER CUTOUTS. -7 CH'D PLACARD CUTOUT TO RECESSED. CH'D MATERIAL WAS EGGSHELL IS C200 FLAT.	5/24/2011	RJC	RW
1	15-0175	-7 CH'D MATERIAL WAS C200 FLAT IS Y20 BLACK. -9 DELETED CONTENT LIST FROM PLACARD. -19, -21, & -23 ADDED TO BOM.	7/17/2015	RJC	JAG



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
				1	GUIDE		RBW6205G11651-3G	1
				8	CLAMP		RBW6205G11451-3G	1
				1	GUIDE		RBW6205G11751-3G	1
				1	PIN	W1 TOOL STEEL	RBW6205G15551-3G	1
		B/O	-3	1	CASE	PLASTIC, BLACK	11.40 X 21.10 X 22.50 PELICAN STORM IM2875-E	N/S
		B/O	-5	1	BOTTOM FOAM	Y20 BLACK	9-1/2 X 21 X 22-1/2 IR SPECIALTY FOAM	2
		B/O	-7	1	LID FOAM	Y20 BLACK	2 X 21 X 22-1/2 IR SPECIALTY FOAM	3
			-9	1	INSIDE PLACARD	PLASTIC		4
		B/O	-11	2	CUP	CLEAR PLOYSTYRENE	Ø1.77 X 4.02 (MCMASTER-CARR #4611T26)	1
		B/O	-13	4	BOLT	STEEL	AN5-27A	1
		B/O	-15	8	BOLT	STEEL	AN5-10A	1
		B/O	-17	8	WASHER	ALUMINUM	AN960-516	N/S
		B/O	-19	1	DART PLACARD	ALUMINUM	#RB41011	N/S
		B/O	-21	4	RIVET	ALUMINUM	Ø1/8 X .525 (MCMASTER-CARR #97447A130)	N/S
		B/O	-23	4	BLIND RIVET WASHER	ALUMINUM	Ø1/8 (MCMASTER-CARR #90183A213)	N/S

NOTE:
REF. AGUSTA T/N: 3G6205G15231.
PART OF KIT RBW6205G11231-3G.

DART AEROSPACE	
TITLE AW139 SWASHPLATE KIT	
DWG NO. RBW6205G15231-3G	
REV 1	
MAT'L	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D West</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 FRACTIONS ± 1/8	FINISH
.X ± .1 ANGLES ± 5°	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AGUSTA
SCALE 1:10	DATE 1/31/2011
SHEET 1 OF 4	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																	
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																	
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																	
Large Fab ☐	Composite ☐	Supplier ☐																																																																		
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																																																																
Description Work Order Deviation		Disposition		Completed By																																																																
				Lead hand / Supervisor Approval Verification																																																																
				QC / QA Coordinator Approval																																																																
Root Cause		FAULT CATEGORY																																																																		
<table style="width: 100%; border: none;"> <tr><td style="border: none;">Environment ☐</td><td style="border: none;">No Re-verification ☐</td></tr> <tr><td style="border: none;">Design ☐</td><td style="border: none;">Operator ☐</td></tr> <tr><td style="border: none;">Doc/Data ☐</td><td style="border: none;">Offset/Setup ☐</td></tr> <tr><td style="border: none;">Equip/Tooling ☐</td><td style="border: none;">Supplier ☐</td></tr> <tr><td style="border: none;">Handling/Pre ☐</td><td style="border: none;">Training ☐</td></tr> <tr><td style="border: none;">Material ☐</td><td style="border: none;">Use for Testing ☐</td></tr> <tr><td style="border: none;">Internal Transport ☐</td><td style="border: none;">Poor Information ☐</td></tr> <tr><td style="border: none;">Tribal Knowledge ☐</td><td style="border: none;">Rushing ☐</td></tr> <tr><td style="border: none;">LOA ☐</td><td style="border: none;">Product Improvement ☐</td></tr> <tr><td style="border: none;">Substation ☐</td><td style="border: none;">Process Improvement ☐</td></tr> <tr><td style="border: none;">Past Expiry Date ☐</td><td style="border: none;">Manufacturing Process ☐</td></tr> <tr><td style="border: none;">Misidentified ☐</td><td style="border: none;">Past Due ☐</td></tr> </table>	Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	<table style="width: 100%; border: none;"> <tr><td style="border: none;">Pressure/Forced ☐</td><td style="border: none;">Temperature/Cure ☐</td></tr> <tr><td style="border: none;">Bending ☐</td><td style="border: none;">Set-up ☐</td></tr> <tr><td style="border: none;">Centre Not Concentric ☐</td><td style="border: none;">BOM/Route ☐</td></tr> <tr><td style="border: none;">Cracks ☐</td><td style="border: none;">Broken/Damage/Defect ☐</td></tr> <tr><td style="border: none;">Crimp/Kink/Ripple/Wave ☐</td><td style="border: none;">Inspection Incomplete/Unqualified ☐</td></tr> <tr><td style="border: none;">Cuffs ☐</td><td style="border: none;">Contamination ☐</td></tr> <tr><td style="border: none;">Crushing ☐</td><td style="border: none;">Countersink ☐</td></tr> <tr><td style="border: none;">Heat Treat ☐</td><td style="border: none;">Cut Too Short ☐</td></tr> <tr><td style="border: none;">Wave/Twist in Tube ☐</td><td style="border: none;">Instructions Incomplete/Unclear ☐</td></tr> <tr><td style="border: none;">Marks/Chatter ☐</td><td style="border: none;">Drill Holes ☐</td></tr> </table>	Pressure/Forced ☐	Temperature/Cure ☐	Bending ☐	Set-up ☐	Centre Not Concentric ☐	BOM/Route ☐	Cracks ☐	Broken/Damage/Defect ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Cuffs ☐	Contamination ☐	Crushing ☐	Countersink ☐	Heat Treat ☐	Cut Too Short ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Marks/Chatter ☐	Drill Holes ☐	<table style="width: 100%; border: none;"> <tr><td style="border: none;">Power Loss/Surge ☐</td><td style="border: none;">Positioned Wrong ☐</td></tr> <tr><td style="border: none;">Folio/Program ☐</td><td style="border: none;">Outside Dimensions ☐</td></tr> <tr><td style="border: none;">Grain ☐</td><td style="border: none;">Over/Under tolerance ☐</td></tr> <tr><td style="border: none;">Weld ☐</td><td style="border: none;">Part Incorrect ☐</td></tr> <tr><td style="border: none;">Wrong Stock Pulled ☐</td><td style="border: none;">Part Lost/Missing ☐</td></tr> <tr><td style="border: none;">Out of Sequence ☐</td><td style="border: none;">Part Moved ☐</td></tr> <tr><td style="border: none;">Off-set ☐</td><td style="border: none;">Drawing ☐</td></tr> <tr><td style="border: none;">Mislabeled ☐</td><td style="border: none;">Finish ☐</td></tr> <tr><td style="border: none;">Fit/Function ☐</td><td style="border: none;">Misread ☐</td></tr> <tr><td style="border: none;">Misaligned/off center ☐</td><td style="border: none;">Turning Sequence ☐</td></tr> </table>			Power Loss/Surge ☐	Positioned Wrong ☐	Folio/Program ☐	Outside Dimensions ☐	Grain ☐	Over/Under tolerance ☐	Weld ☐	Part Incorrect ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Out of Sequence ☐	Part Moved ☐	Off-set ☐	Drawing ☐	Mislabeled ☐	Finish ☐	Fit/Function ☐	Misread ☐	Misaligned/off center ☐	Turning Sequence ☐
Environment ☐	No Re-verification ☐																																																																			
Design ☐	Operator ☐																																																																			
Doc/Data ☐	Offset/Setup ☐																																																																			
Equip/Tooling ☐	Supplier ☐																																																																			
Handling/Pre ☐	Training ☐																																																																			
Material ☐	Use for Testing ☐																																																																			
Internal Transport ☐	Poor Information ☐																																																																			
Tribal Knowledge ☐	Rushing ☐																																																																			
LOA ☐	Product Improvement ☐																																																																			
Substation ☐	Process Improvement ☐																																																																			
Past Expiry Date ☐	Manufacturing Process ☐																																																																			
Misidentified ☐	Past Due ☐																																																																			
Pressure/Forced ☐	Temperature/Cure ☐																																																																			
Bending ☐	Set-up ☐																																																																			
Centre Not Concentric ☐	BOM/Route ☐																																																																			
Cracks ☐	Broken/Damage/Defect ☐																																																																			
Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐																																																																			
Cuffs ☐	Contamination ☐																																																																			
Crushing ☐	Countersink ☐																																																																			
Heat Treat ☐	Cut Too Short ☐																																																																			
Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐																																																																			
Marks/Chatter ☐	Drill Holes ☐																																																																			
Power Loss/Surge ☐	Positioned Wrong ☐																																																																			
Folio/Program ☐	Outside Dimensions ☐																																																																			
Grain ☐	Over/Under tolerance ☐																																																																			
Weld ☐	Part Incorrect ☐																																																																			
Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																			
Out of Sequence ☐	Part Moved ☐																																																																			
Off-set ☐	Drawing ☐																																																																			
Mislabeled ☐	Finish ☐																																																																			
Fit/Function ☐	Misread ☐																																																																			
Misaligned/off center ☐	Turning Sequence ☐																																																																			
OTHER : ☐																																																																				